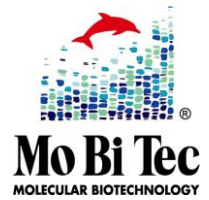


MFP488 carboxylic acid, succinimidyl ester (NHS ester)

Product Information Sheet
MFP-A2000



SUMMARY

shipped at room temperature; store at -20 °C

Unit: 1 mg

Stock Solution: dissolve to at least 1 mM in anhydrous DMSO or DMF

Abs./Em.max.: 501/523 nm

For research use only

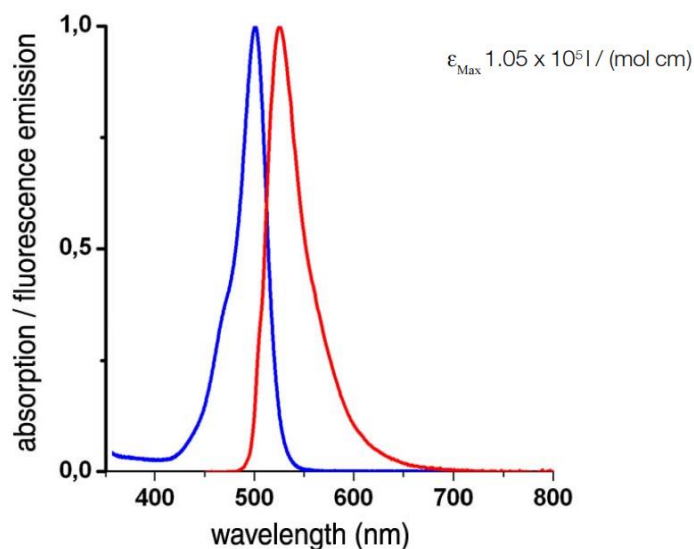
Absorption / Emission Maxima

Absorption maximum: 501 nm +/- 5 nm

Emission maximum: 523 nm +/- 5 nm

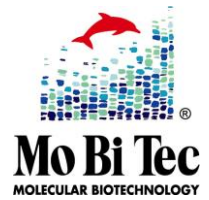
Molecular Weight: 687 g/mol

Spectra MFP488



MFP488 carboxylic acid, succinimidyl ester (NHS ester)

Product Information Sheet
MFP-A2000



Labeling Protocol

1. Dissolve the desired amount of protein in 0.1 - 0.2 M sodium bicarbonate buffer (pH 8.3 – 9.0). The protein concentration should usually be 5 - 20 mg/ml. Concentrations lower than 2 mg/ml will decrease the efficiency of the reaction. Protein solution must be free of any amine-containing substances as Tris, glycine or ammonium ions.
2. Transfer an appropriate volume of the MFP488 NHS stock solution dropwise under stirring to the protein solution. Due to the high reactivity of the NHS ester, add an equimolar amount or the double excess of label to the protein to obtain a dye to protein ratio between 1 and 2.
3. Higher molar excesses of the label can lead to overlabeling of the protein causing a decrease in quantum yield of the conjugate.
4. Incubate the dye/protein mixture one hour at room temperature.

Purification

Separate the protein conjugate from unreacted free dye using a Sephadex column (Sephadex G25 medium; eluent PBS pH 7.2, 22 mM). The first running colored band is the MFP488-labeled protein. Alternatively, BioGel P-30 or equivalent gel filtration media, equilibrated with a buffer of your choice, may be used.

MFP488 carboxylic acid, succinimidyl ester (NHS ester)

Product Information Sheet
MFP-A2000



Order Information, Shipping and Storage

Order#	Product	Quantity
MFP-A2000	MFP488 carboxylic acid, succinimidyl ester (NHS ester)	1 mg
shipped at room temperature; store at -20 °C		

Storage Conditions

Upon receipt, store the MFP succinimidyl ester at -20 °C, desiccated and protected from light. When stored properly, the reactive dye should be stable for at least 3 months.

Immediately before use, dissolve in high-quality, anhydrous dimethylsulfoxide (DMSO) or dimethylformamide (DMF). Once reconstituted, the reactive dye solution is unstable if exposed to moisture. Although MFP succinimidyl ester is water soluble, it will hydrolyze into the nonreactive free acid in aqueous solution.

Storage of Protein Conjugate

MFP488 labeled protein conjugates should be stored under the same conditions used for the unlabeled protein. For storage in solution at 4 °C, sodium azide (2 mM final concentration) should be added as preservative.

Contact and Support

MoBiTec GmbH ● Lotzestrasse 22a ● D-37083 Goettingen ● Germany

Customer Service – General inquiries & orders information

phone: +49 (0)551 707 22 0
fax: +49 (0)551 707 22 22
e-mail: order@mobitec.com

Technical Service – Product

phone: +49 (0)551 707 22 70
fax: +49 (0)551 707 22 77
e-mail: info@mobitec.com

MoBiTec in your area: Find your local distributor at

www.mobitec.com